

IN THE CLAIMS

Please cancel claims 1-41.

Please add the following claims:

42. (New) An isolated enzyme with uracil-DNA glycosylase activity, wherein said enzyme has an amino acid sequence as set forth in SEQ ID NO: 2 from amino acid 82 to amino acid 310, or a biologically functional part thereof having uracil-DNA glycosylase activity .

43. (New) An enzyme having uracil-DNA glycosylase activity comprising the enzyme of claim 1 and a subcellular localization signal attached to the N-terminal, wherein said localization signal is as set forth in SEQ ID NO: 2 from amino acid 1 to amino acid 81 or a biologically functional part thereof having uracil-DNA glycosylase activity.

44. (New) An enzyme having uracil-DNA glycosylase activity comprising the enzyme of claim 1 and a detectable label.

45. (New) A composition for use in preventing experimental carry-over of active glycosylase in a PCR reaction comprising the enzyme according to 42.

46. (New) A composition for use in preventing experimental carry-over of active glycosylase in PCR reactions comprising the enzyme according to 43.

47. (New) A composition for use in preventing experimental carry-over of active glycosylase in PCR reactions comprising the enzyme glycosylase according to 44.